

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017551.D
 Acq On : 24 Jul 2020 18:25
 Operator : JC/SP
 Sample : L3381-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 365-GRID-B6-B8

Quant Time: Jul 25 01:53:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	452640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	743534	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	812752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	456192	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	312430	53.73	ug/l	0.00
Spiked Amount			Recovery	=	107.46%	
35) Dibromofluoromethane	5.47	113	269124	54.12	ug/l	0.00
Spiked Amount			Recovery	=	108.24%	
50) Toluene-d8	8.70	98	923985	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	11.12	95	403047	56.14	ug/l	0.00
Spiked Amount			Recovery	=	112.28%	

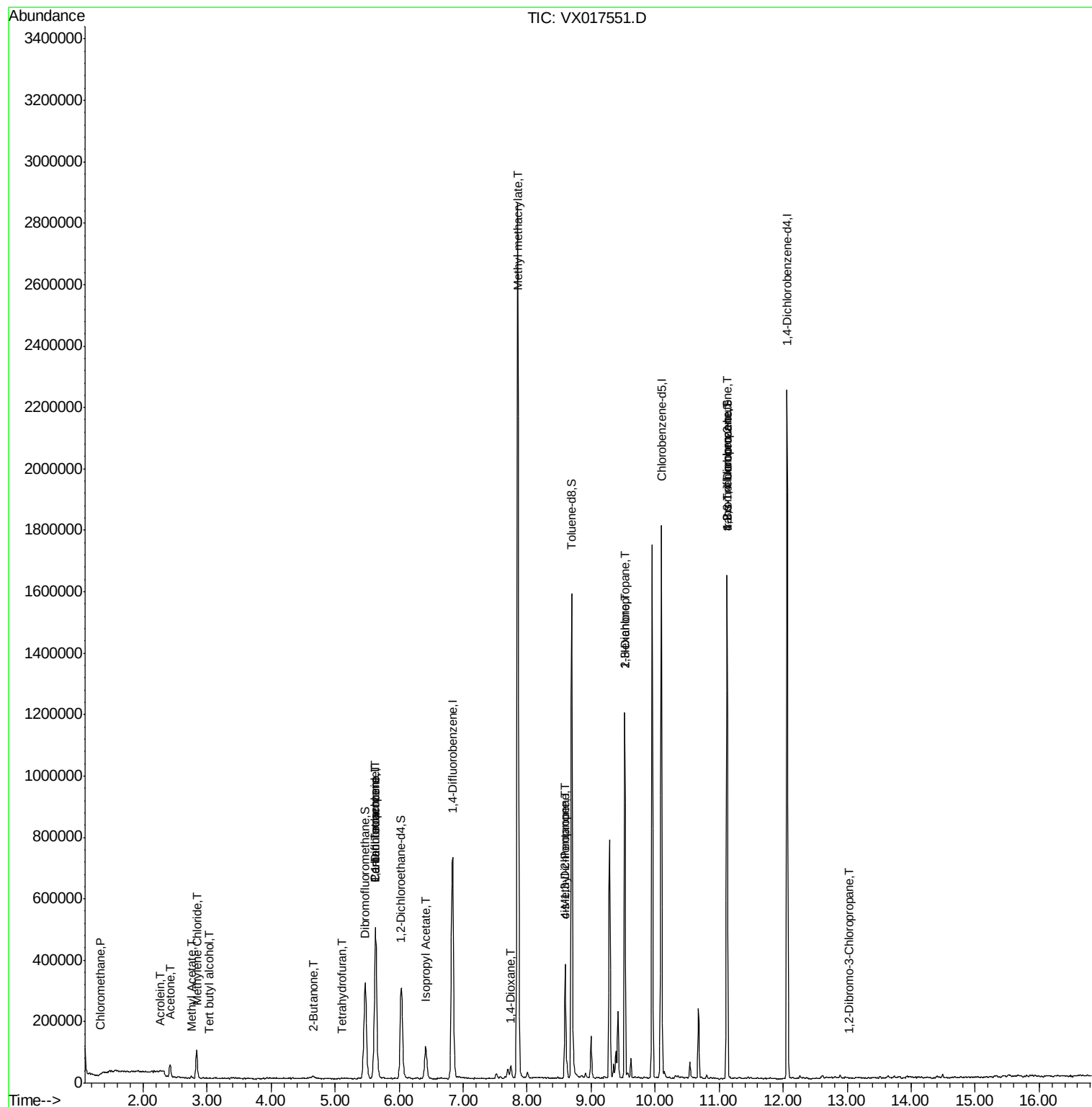
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	245	Below Cal	#	1
3) Chloromethane	1.32	50	531	0.461	ug/l #	75
5) Bromomethane	1.59	94	339	Below Cal	#	3
6) Chloroethane	1.73	64	784	Below Cal	#	44
8) Diethyl Ether	2.17	74	1276	Below Cal		94
11) Tert butyl alcohol	3.03	59	1029	0.840	ug/l #	61
13) Acrolein	2.26	56	1803	6.044	ug/l #	40
16) Acetone	2.42	43	44833	17.519	ug/l	97
18) Methyl Acetate	2.75	43	6903	1.145	ug/l #	78
20) Methylene Chloride	2.83	84	41684	7.559	ug/l	96
25) 2-Butanone	4.65	43	9538	2.624	ug/l #	83
29) Tetrahydrofuran	5.10	42	1117	0.496	ug/l #	48
36) 1,1-Dichloropropene	5.63	75	33430	4.688	ug/l #	48
38) Carbon Tetrachloride	5.64	117	45319	5.233	ug/l #	17
43) Isopropyl Acetate	6.42	43	149160	11.586	ug/l	100
48) Methyl methacrylate	7.85	41	243182	38.108	ug/l #	46
49) 1,4-Dioxane	7.73	88	97	0.793	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	141553	18.428	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	58833	6.393	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	10620	1.181	ug/l #	44
59) 2-Hexanone	9.52	43	136999	23.689	ug/l #	53
76) 1,2,3-Trichloropropane	11.12	75	204907	21.836	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	204907	55.021	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.03	75	77	2.603	ug/l	58

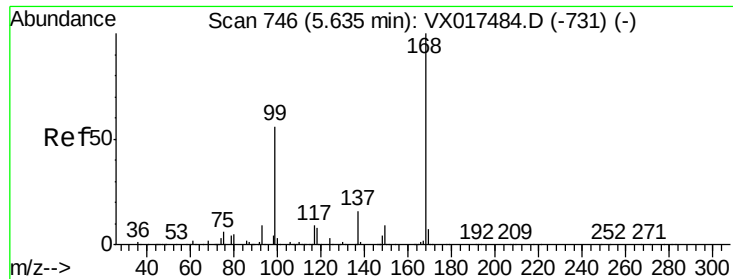
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

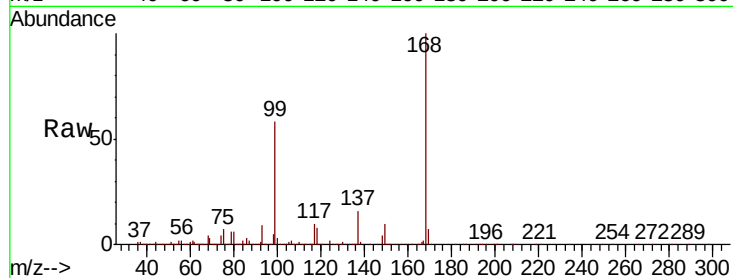
365-GRID-B6-B8

Tot Ion:168 Resp: 452640

Ion Ratio Lower Upper

168 100

99 58.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

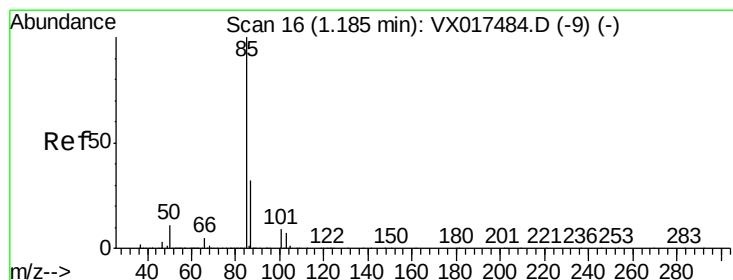
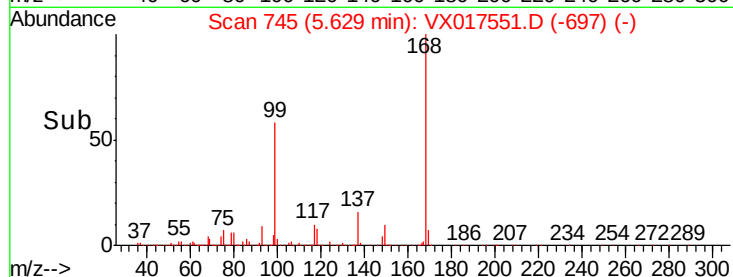
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017551.D

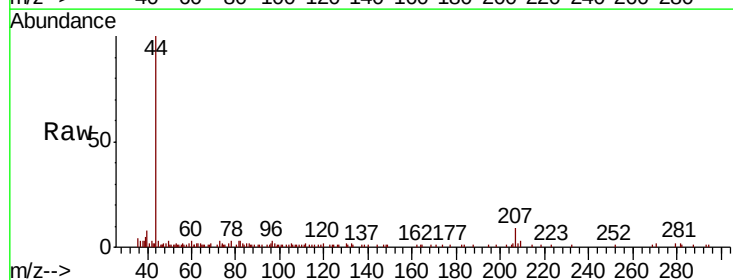
Acq: 24 Jul 2020 18:25

Tgt Ion: 85 Resp: 245

Ion Ratio Lower Upper

85 100

87 93.4 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

250

200

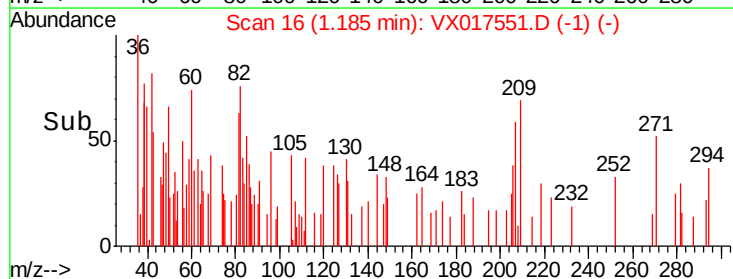
150

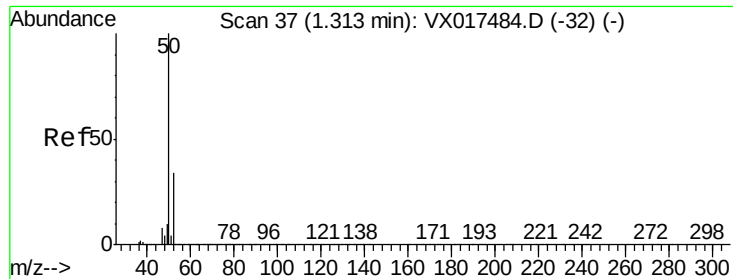
100

50

0

Time-->





#3

Chloromethane

Concen: 0.461 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

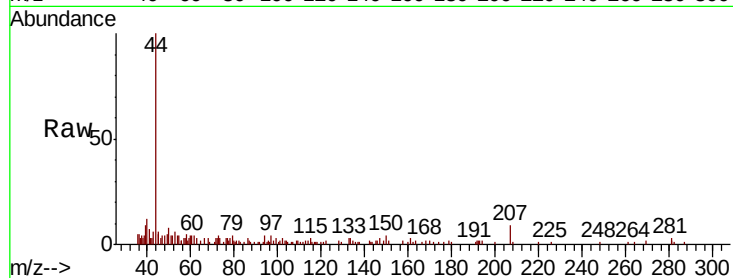
365-GRID-B6-B8

Tot Ion: 50 Resp: 531

Ion Ratio Lower Upper

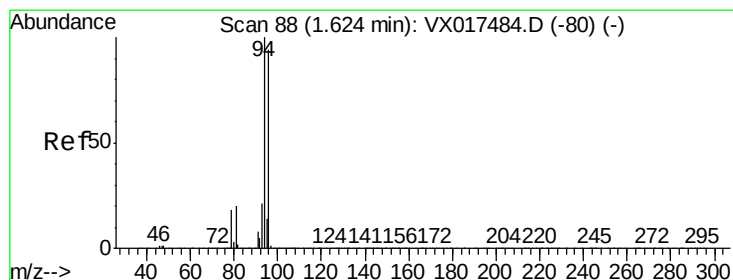
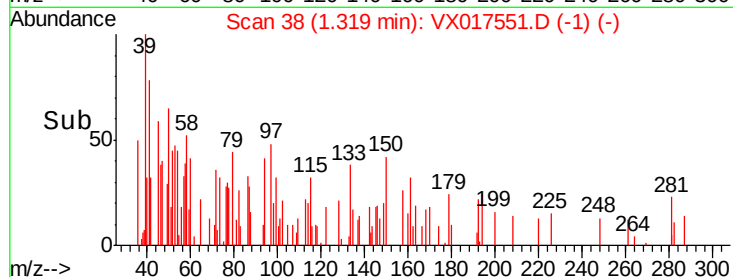
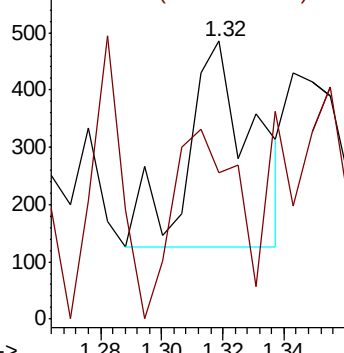
50 100

52 18.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 83

Delta R.T. -0.03 min

Lab File: VX017551.D

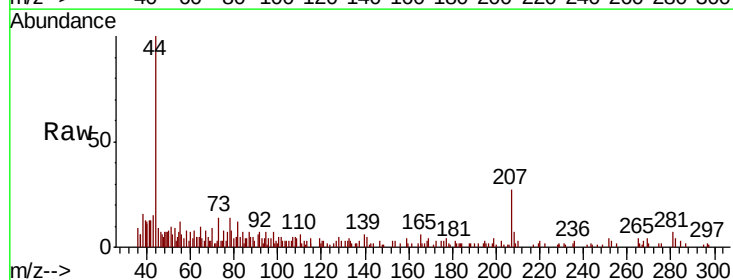
Acq: 24 Jul 2020 18:25

Tgt Ion: 94 Resp: 339

Ion Ratio Lower Upper

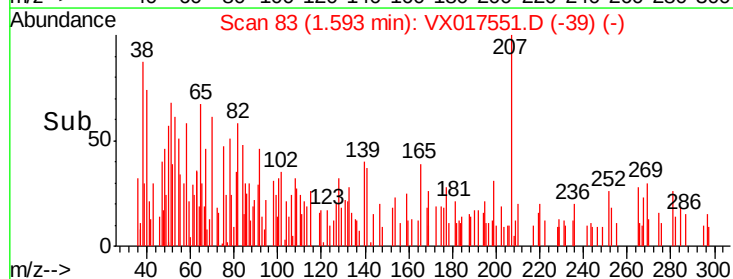
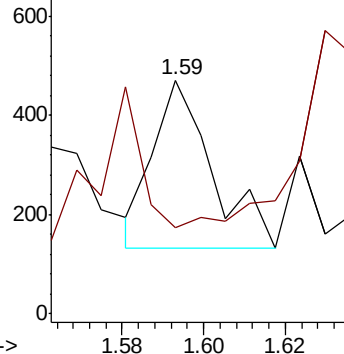
94 100

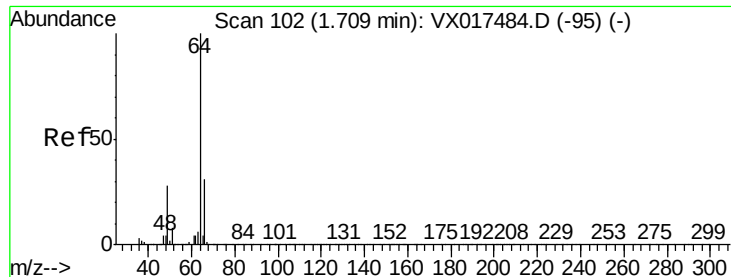
96 0.0 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 105

Delta R.T. 0.02 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

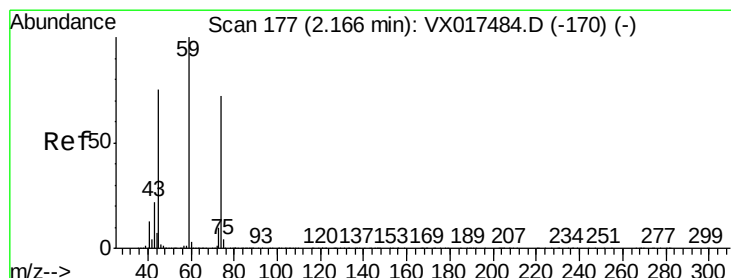
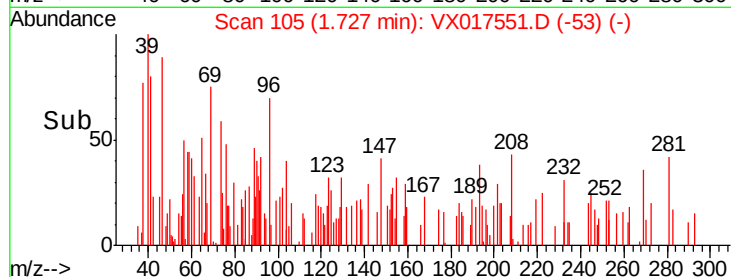
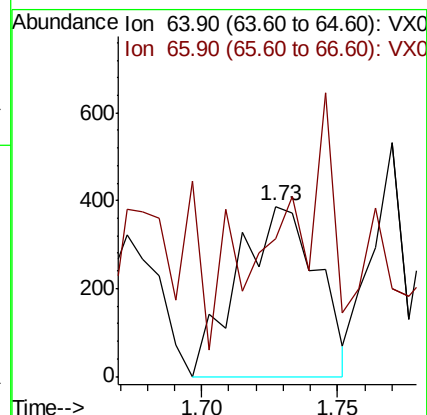
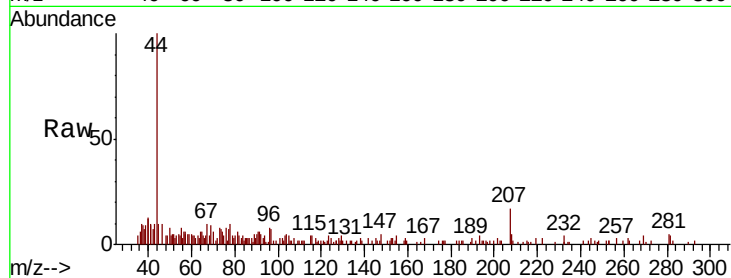
365-GRID-B6-B8

Tot Ion: 64 Resp: 784

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017551.D

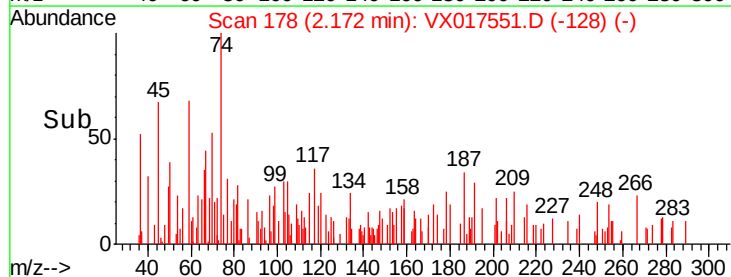
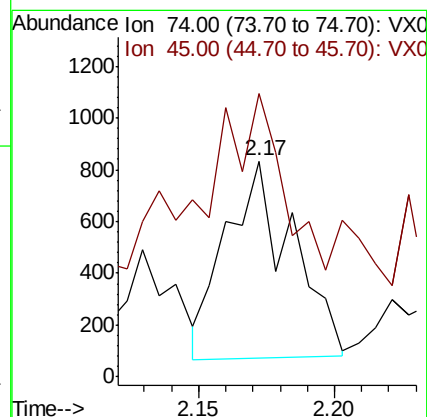
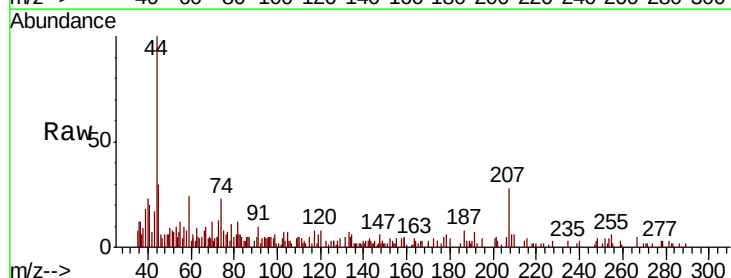
Acq: 24 Jul 2020 18:25

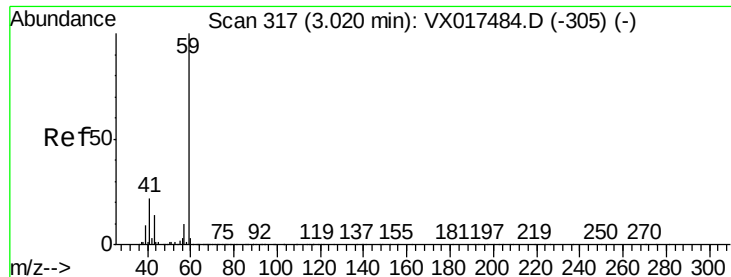
Tgt Ion: 74 Resp: 1276

Ion Ratio Lower Upper

74 100

45 96.0 50.8 152.5



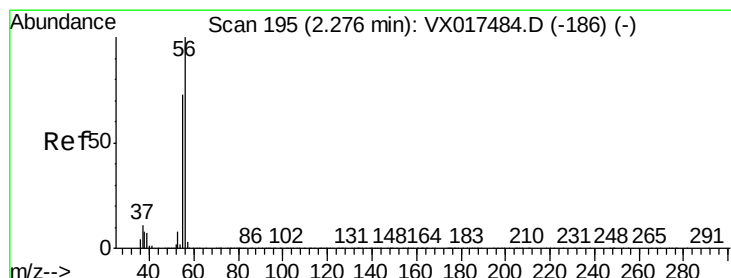
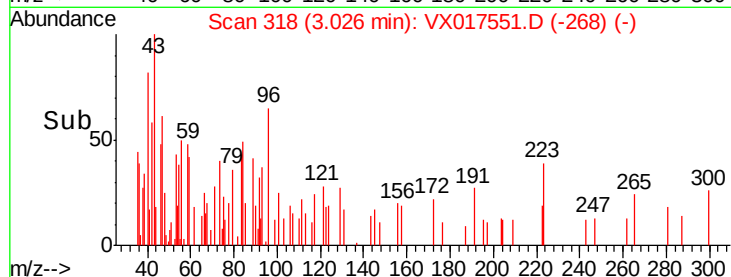
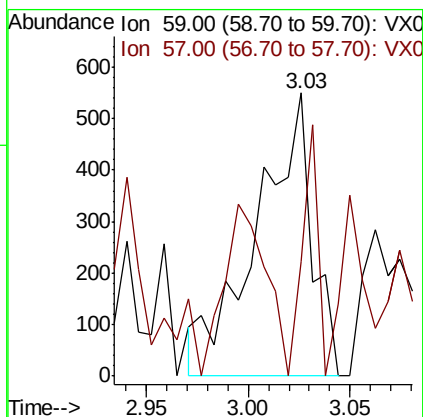
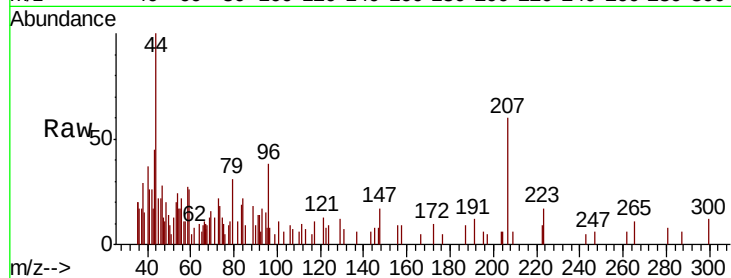


#11

Tert butyl alcohol
 Concen: 0.840 ug/l
 RT: 3.03 min Scan# 318
 Delta R.T. 0.01 min
 Lab File: VX017551.D
 Acq: 24 Jul 2020 18:25

Instrument :
 MSVOA_X
 ClientSampleId :
 365-GRID-B6-B8

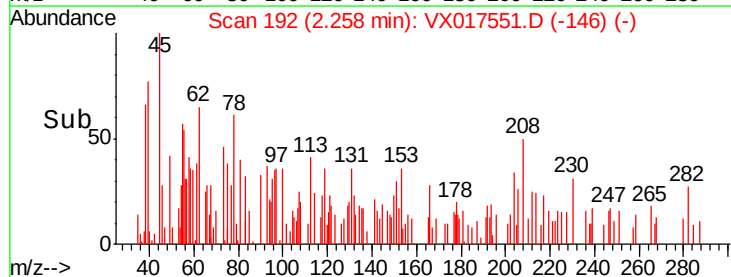
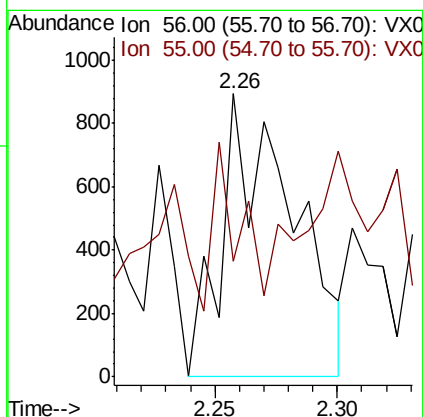
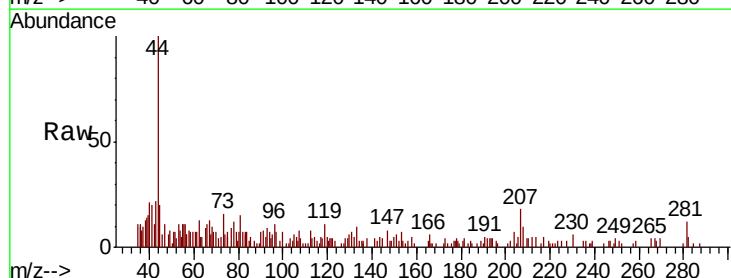
Tot Ion: 59 Resp: 1029
 Ion Ratio Lower Upper
 59 100
 57 25.3 8.6 12.8#

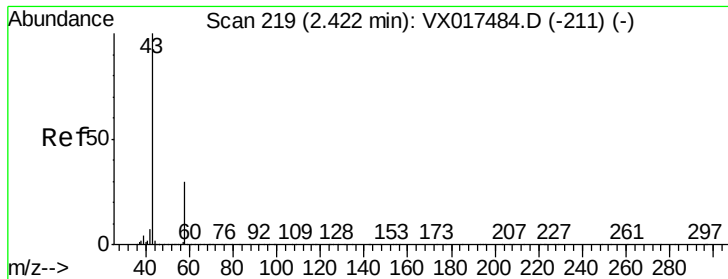


#13

Acrolein
 Concen: 6.044 ug/l
 RT: 2.26 min Scan# 192
 Delta R.T. -0.02 min
 Lab File: VX017551.D
 Acq: 24 Jul 2020 18:25

Tgt Ion: 56 Resp: 1803
 Ion Ratio Lower Upper
 56 100
 55 22.1 57.4 86.2#





#16

Acetone

Concen: 17.519 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

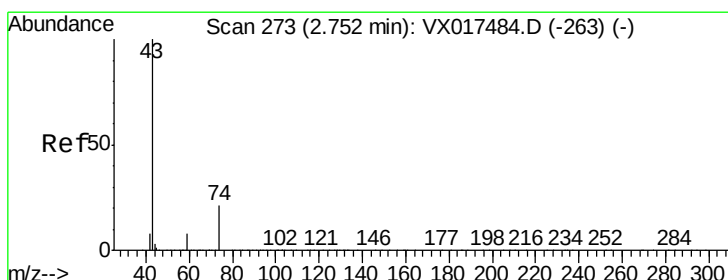
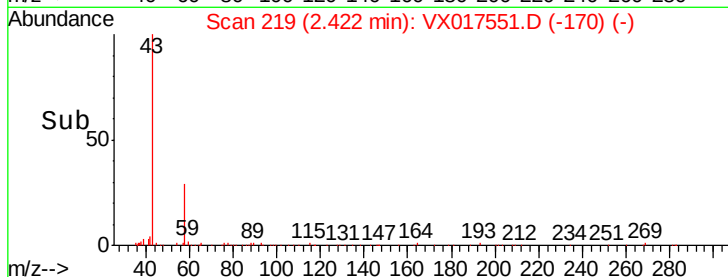
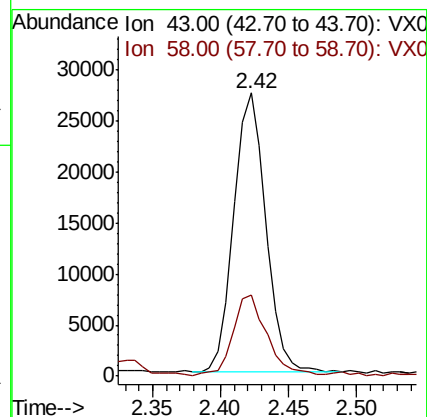
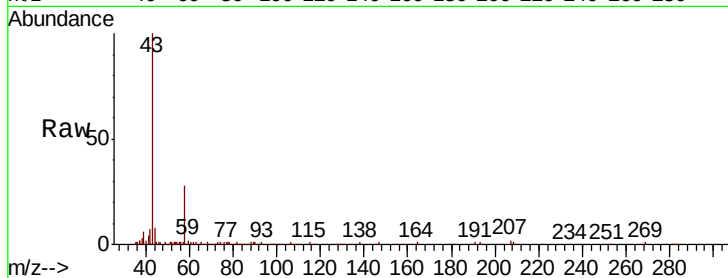
365-GRID-B6-B8

Tot Ion: 43 Resp: 44833

Ion Ratio Lower Upper

43 100

58 28.6 24.2 36.4



#18

Methyl Acetate

Concen: 1.145 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017551.D

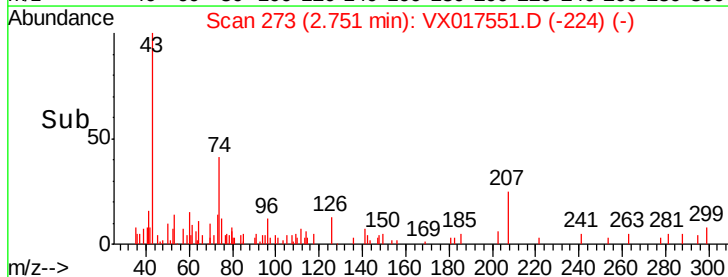
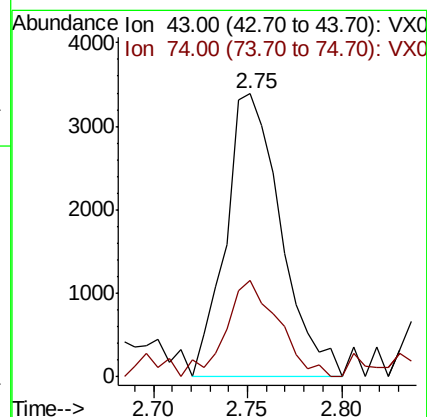
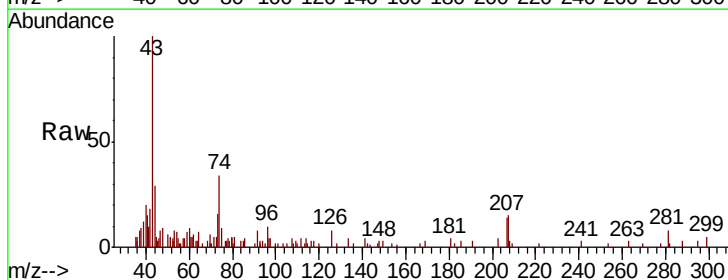
Acq: 24 Jul 2020 18:25

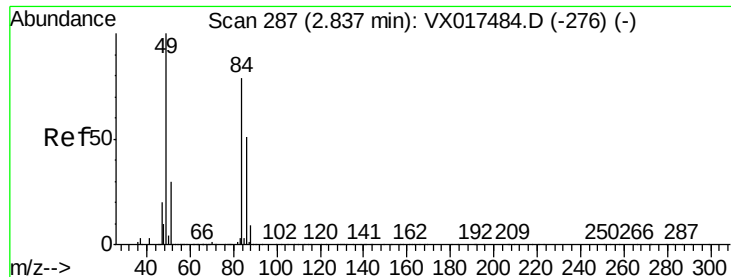
Tgt Ion: 43 Resp: 6903

Ion Ratio Lower Upper

43 100

74 32.5 17.5 26.3#

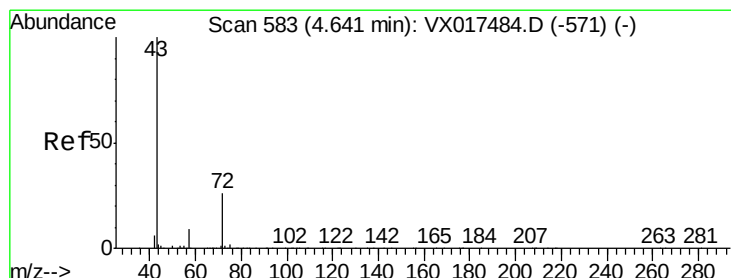
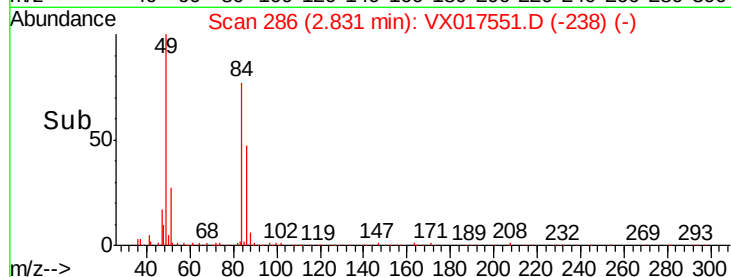
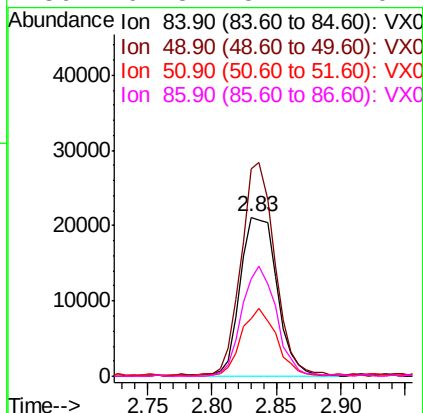
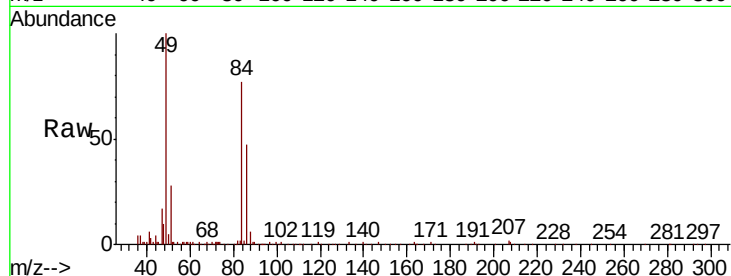




#20
Methylene Chloride
Concen: 7.559 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017551.D
Acq: 24 Jul 2020 18:25

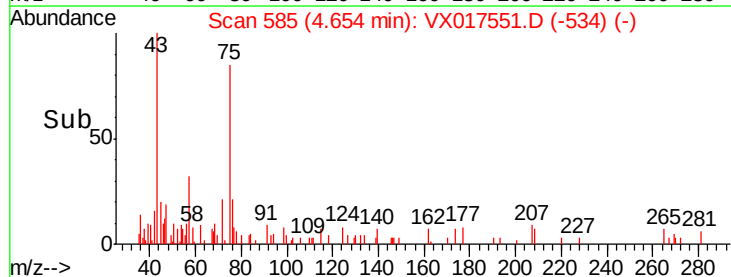
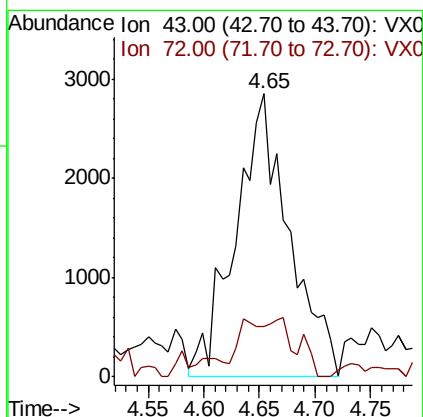
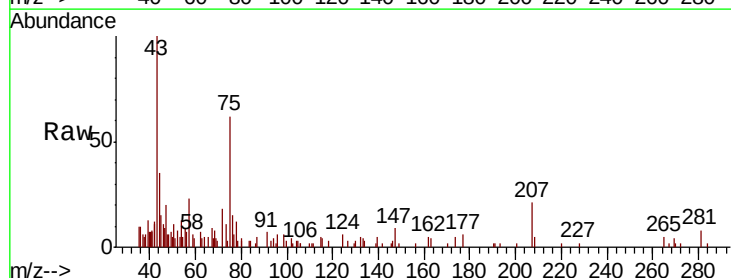
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365-GRID-B6-B8

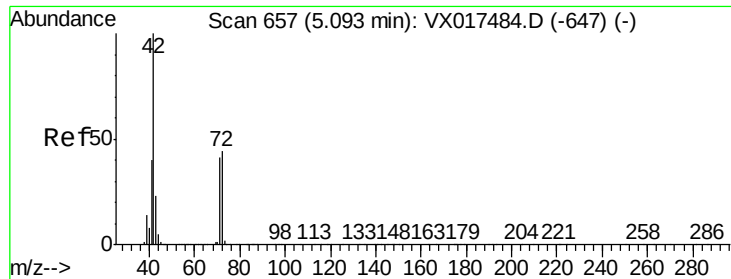
Tot Ion:	84	Resp:	41684
Ion	Ratio	Lower	Upper
84	100		
49	130.1	100.3	150.5
51	36.1	30.5	45.7
86	61.3	51.1	76.7



#25
2-Butanone
Concen: 2.624 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX017551.D
Acq: 24 Jul 2020 18:25

Tgt Ion:	43	Resp:	9538
Ion	Ratio	Lower	Upper
43	100		
72	15.4	19.0	28.4#





#29

Tetrahydrofuran

Concen: 0.496 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

365-GRID-B6-B8

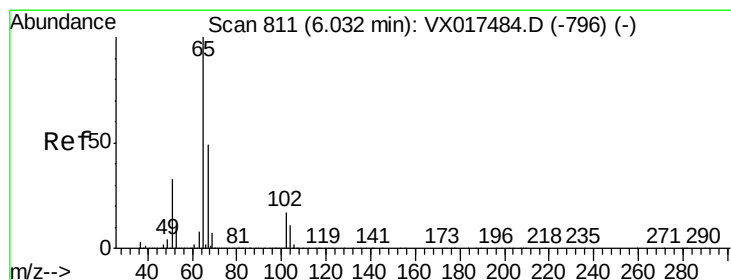
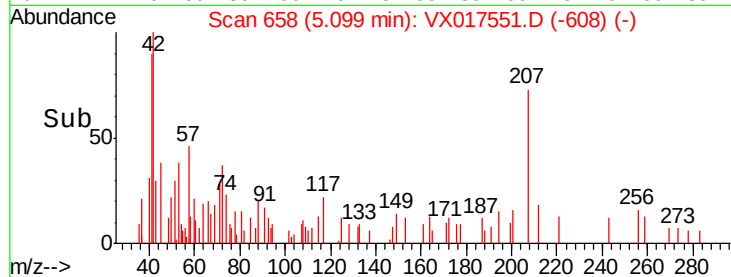
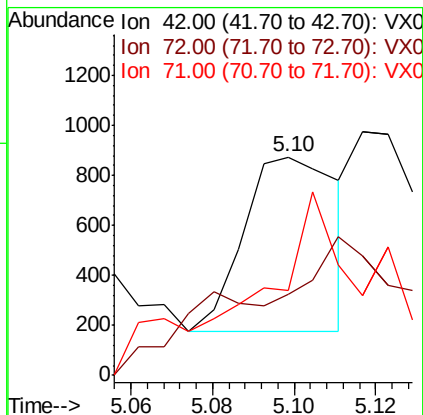
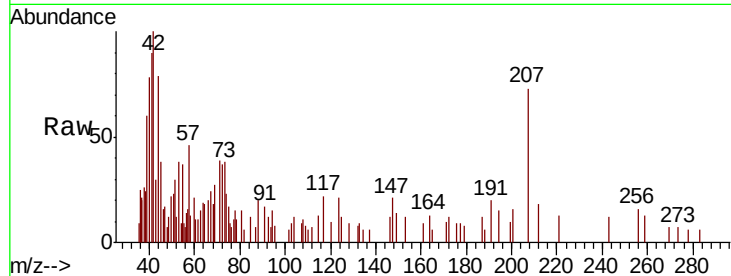
Tot Ion: 42 Resp: 1117

Ion Ratio Lower Upper

42 100

72 86.5 35.5 53.3#

71 65.4 33.0 49.4#



#33

1,2-Dichloroethane-d4

Concen: 53.734 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017551.D

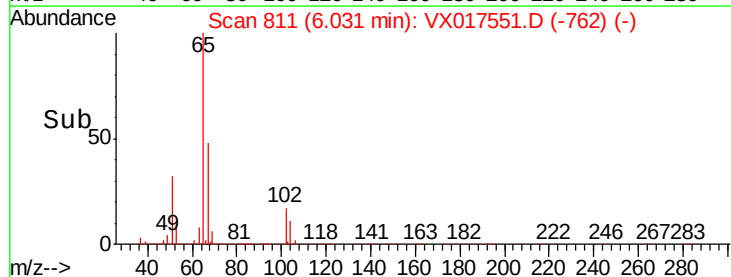
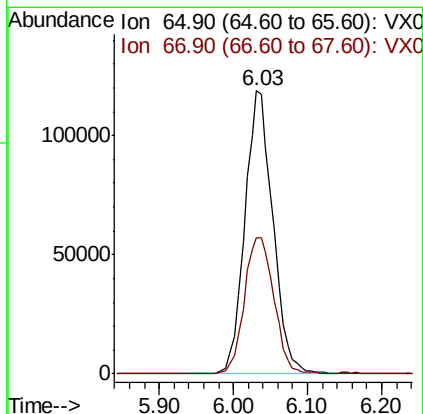
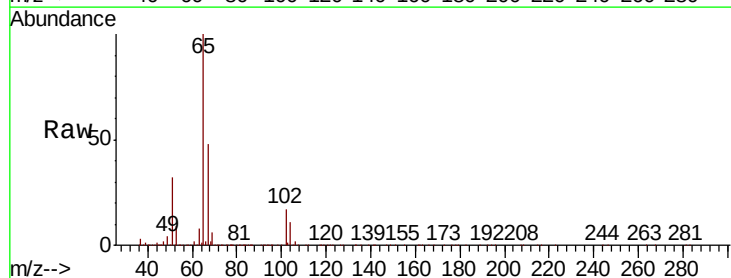
Acq: 24 Jul 2020 18:25

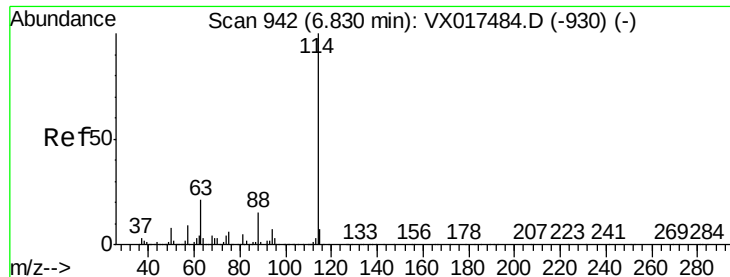
Tgt Ion: 65 Resp: 312430

Ion Ratio Lower Upper

65 100

67 50.5 0.0 102.8

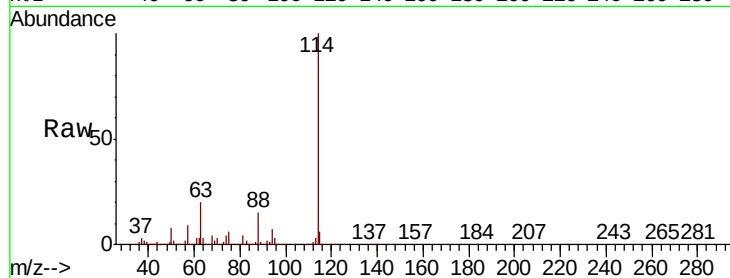




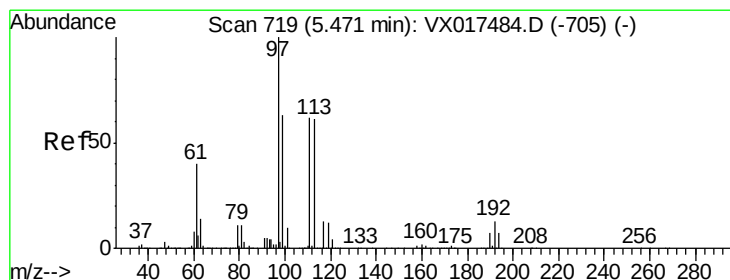
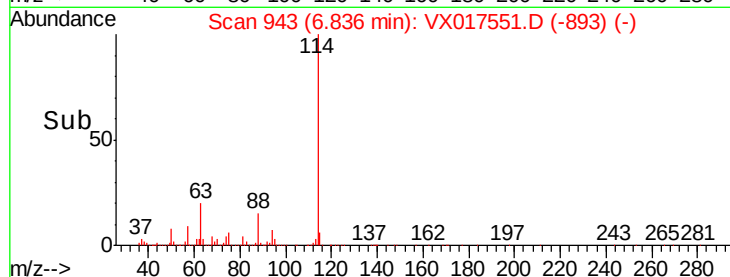
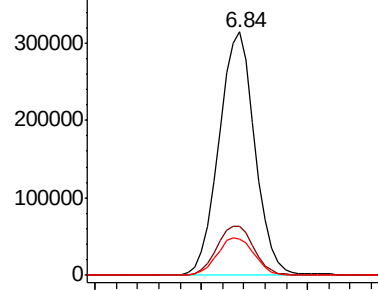
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.84 min Scan# 943
Delta R.T. 0.01 min
Lab File: VX017551.D
Acq: 24 Jul 2020 18:25

Instrument :
MSVOA_X
ClientSampleId :
365-GRID-B6-B8

Tot Ion:114 Resp: 743534
Ion Ratio Lower Upper
114 100
63 20.0 0.0 40.6
88 15.1 0.0 33.4

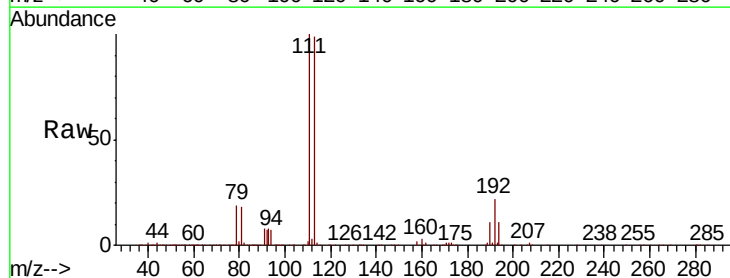


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

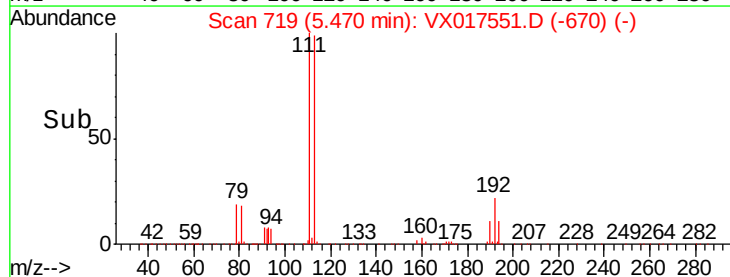
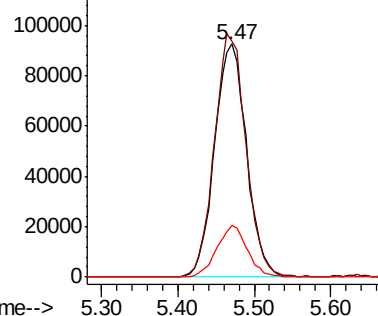


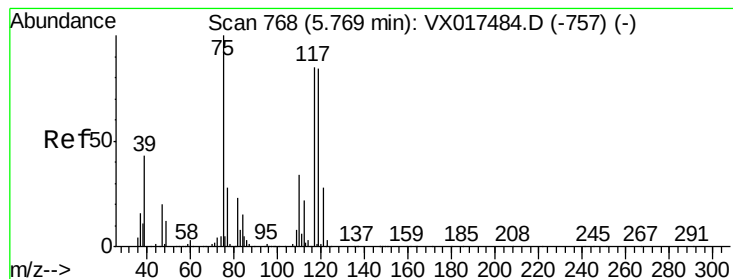
#35
Dibromofluoromethane
Concen: 54.119 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX017551.D
Acq: 24 Jul 2020 18:25

Tgt Ion:113 Resp: 269124
Ion Ratio Lower Upper
113 100
111 102.9 80.7 121.1
192 21.2 16.9 25.3



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.688 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

365-GRID-B6-B8

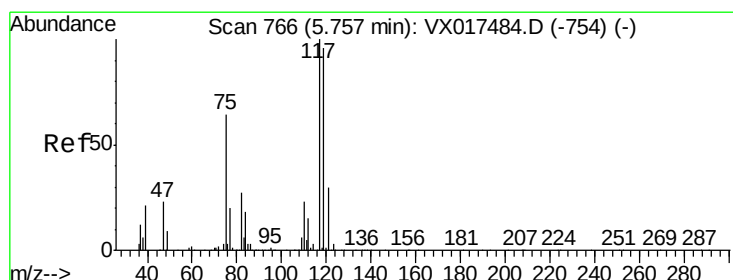
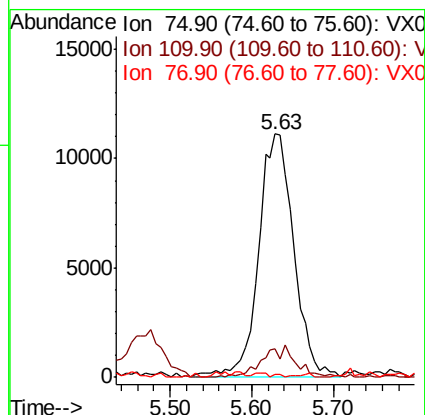
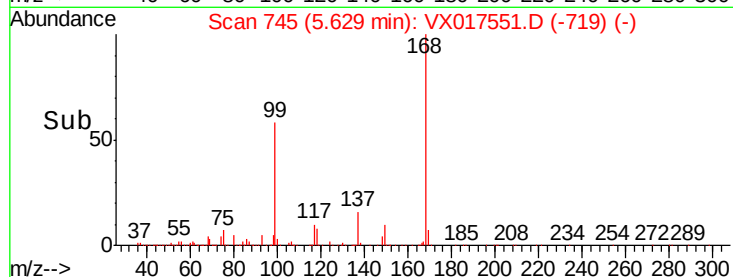
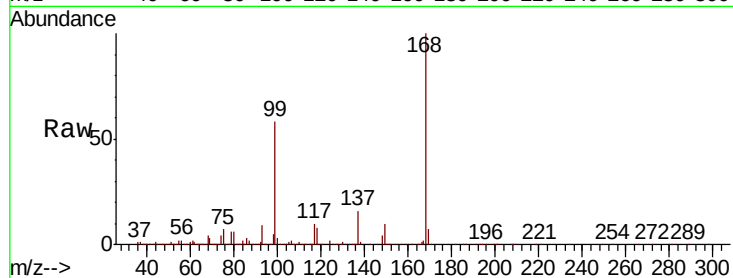
Tot Ion: 75 Resp: 33430

Ion Ratio Lower Upper

75 100

110 7.1 18.1 54.3#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.233 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

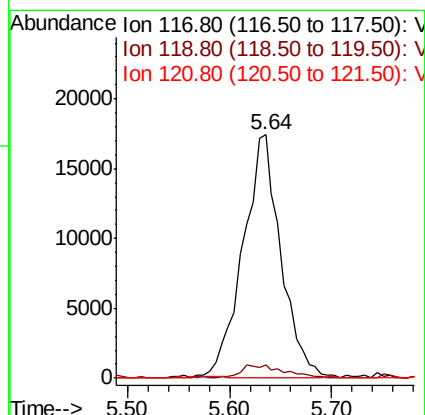
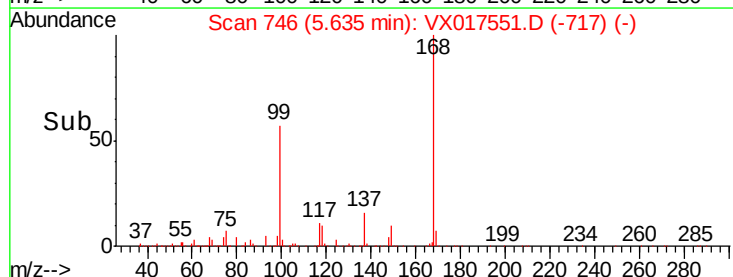
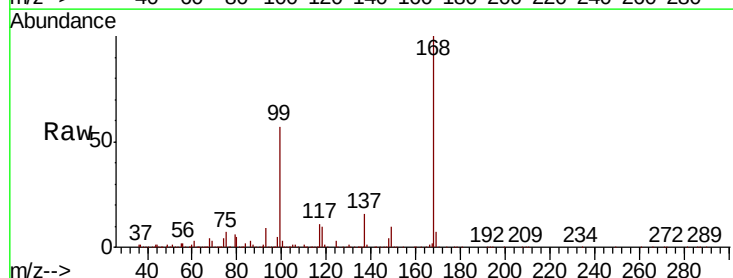
Tgt Ion: 117 Resp: 45319

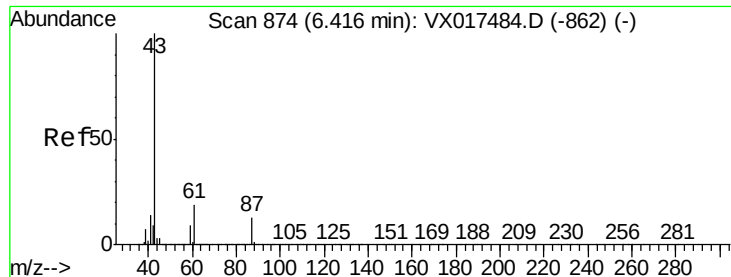
Ion Ratio Lower Upper

117 100

119 5.7 75.4 113.0#

121 0.0 24.3 36.5#





#43

Isopropyl Acetate

Concen: 11.586 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

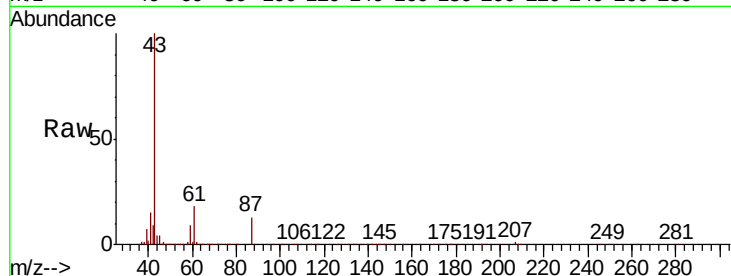
MSVOA_X

ClientSampleId :

365-GRID-B6-B8

Tot Ion: 43 Resp: 149160

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.5	23.3
87	13.4	10.5	15.7

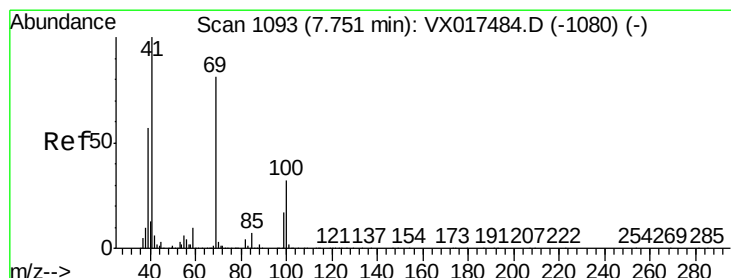
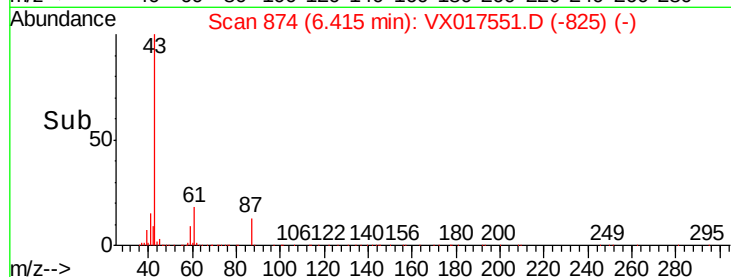
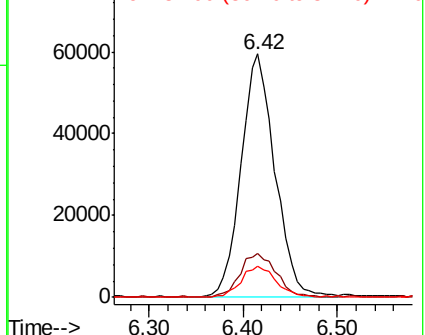


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 38.108 ug/l

RT: 7.85 min Scan# 1110

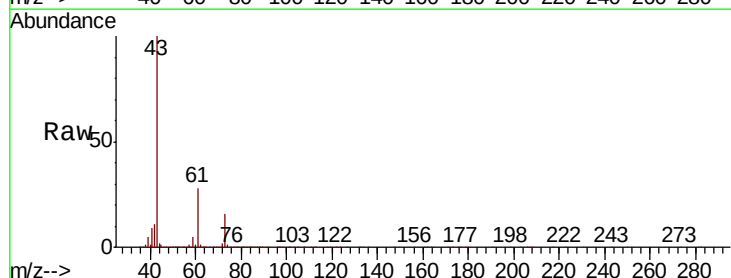
Delta R.T. 0.10 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Tgt Ion: 41 Resp: 243182

Ion	Ratio	Lower	Upper
41	100		
69	0.4	63.1	94.7#
39	52.6	45.1	67.7

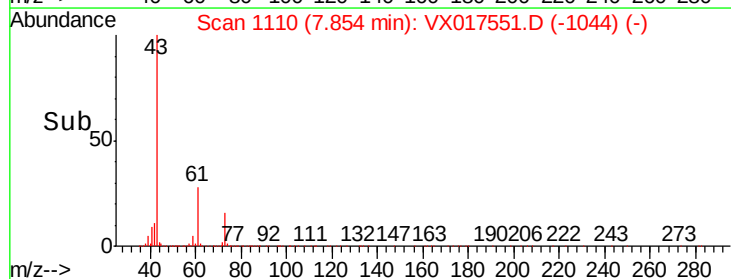
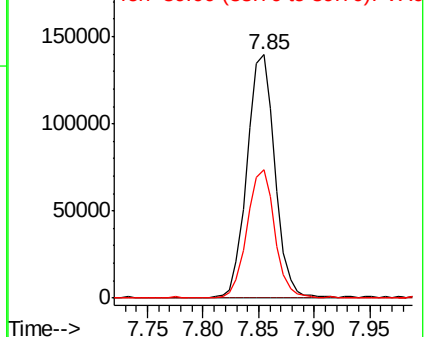


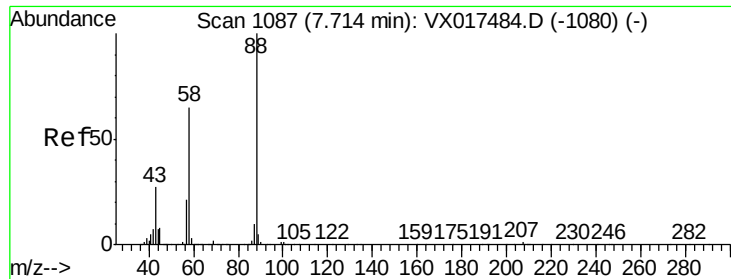
Abundance

Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

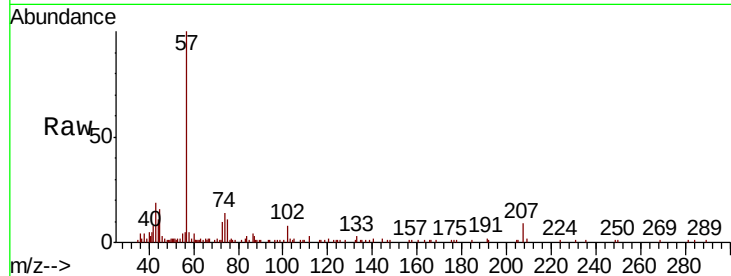




#49
 1,4-Dioxane
 Concen: 0.793 ug/l
 RT: 7.73 min Scan# 1090
 Delta R.T. 0.02 min
 Lab File: VX017551.D
 Acq: 24 Jul 2020 18:25

Instrument :
 MSVOA_X
 ClientSampled :
 365-GRID-B6-B8

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	0.0	58.3	87.5#

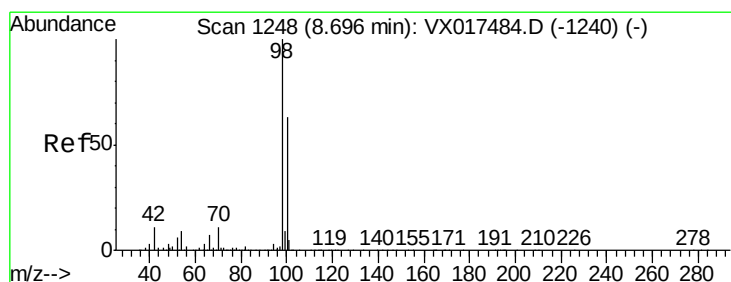
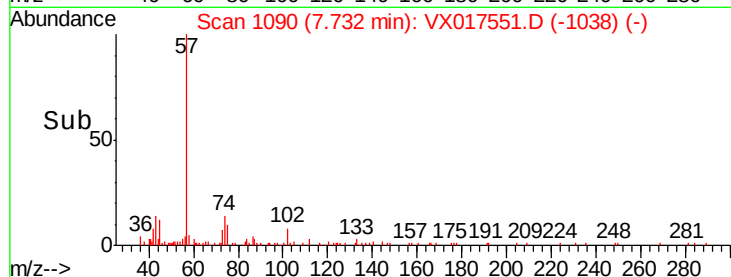
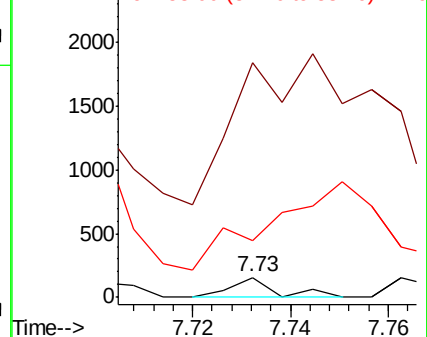


Abundance

Ion 88.00 (87.70 to 88.70): VX0

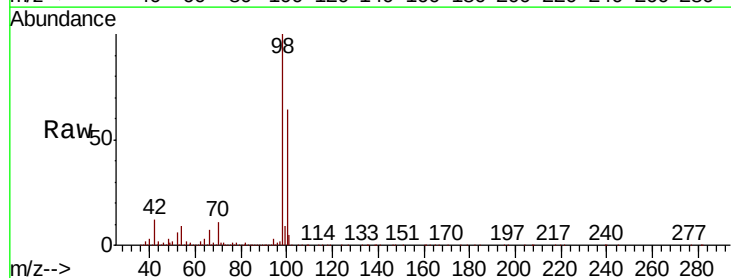
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50
 Toluene-d8
 Concen: 51.506 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VX017551.D
 Acq: 24 Jul 2020 18:25

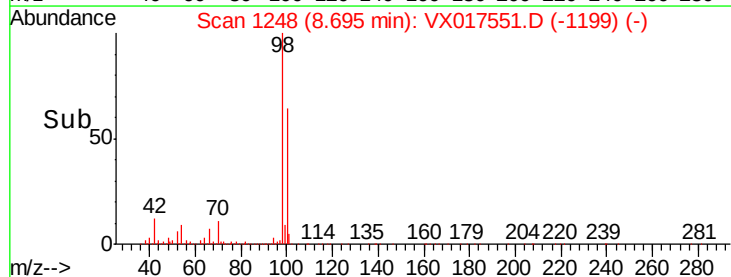
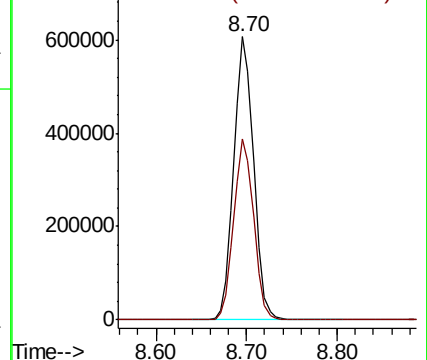
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.3	78.5

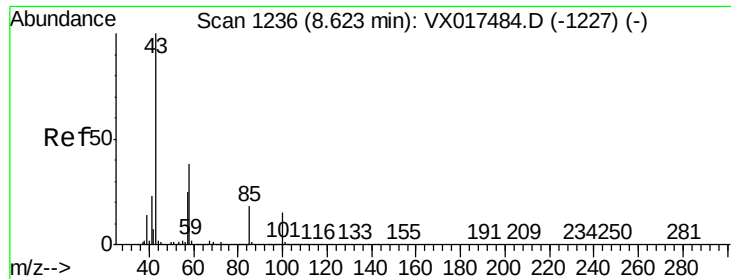


Abundance

Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

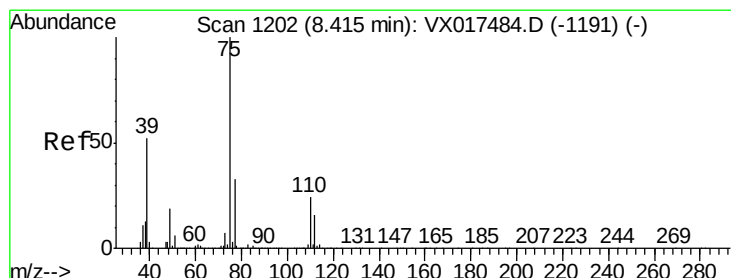
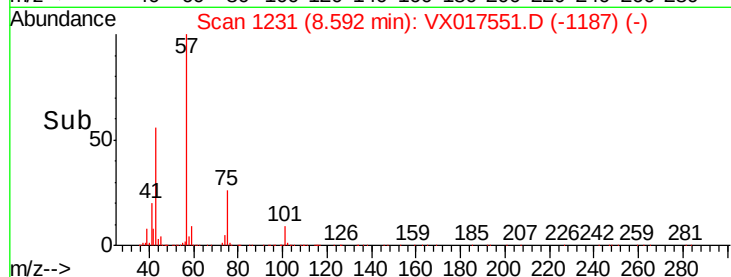
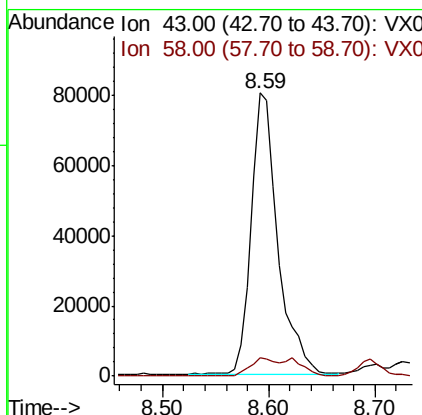
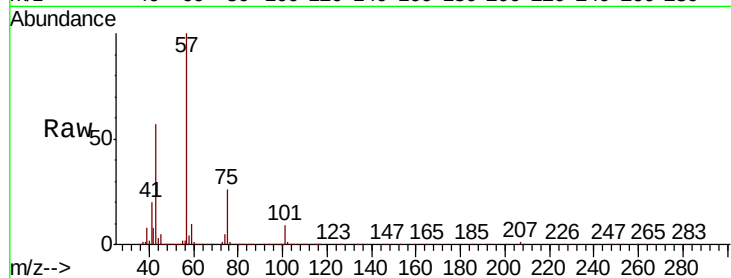




#51
 4-Methyl-2-Pentanone
 Concen: 18.428 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.03 min
 Lab File: VX017551.D
 Acq: 24 Jul 2020 18:25

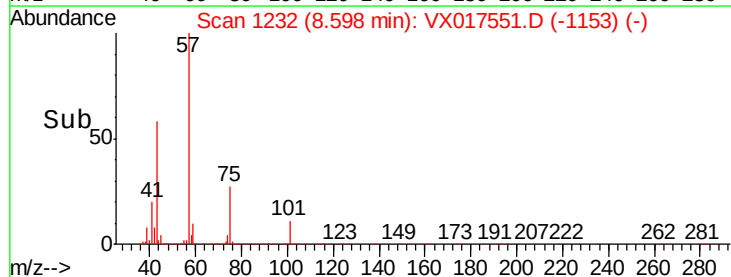
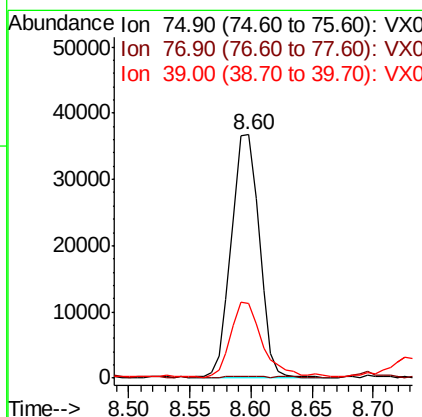
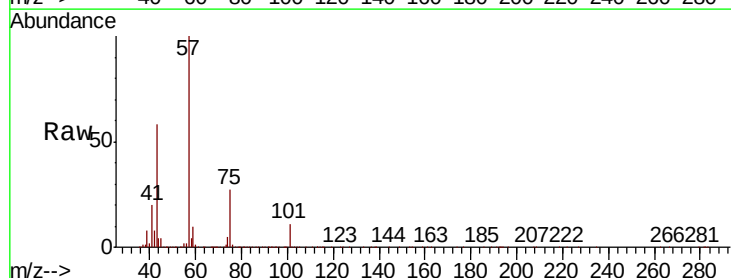
Instrument :
 MSVOA_X
 ClientSampleId :
 365-GRID-B6-B8

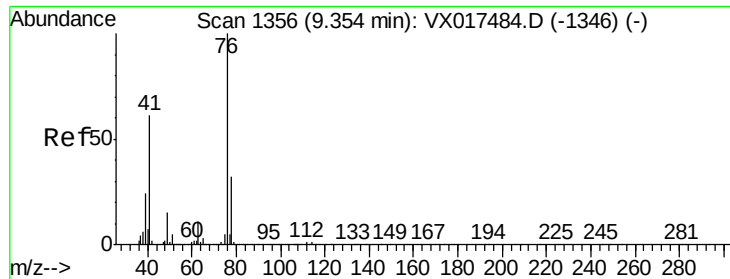
Tot Ion: 43 Resp: 141553
 Ion Ratio Lower Upper
 43 100
 58 6.7 31.0 46.4#



#54
 cis-1,3-Dichloropropene
 Concen: 6.393 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX017551.D
 Acq: 24 Jul 2020 18:25

Tgt Ion: 75 Resp: 58833
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.5 38.3#
 39 29.7 41.8 62.8#





#57

1,3-Dichloropropane

Concen: 1.181 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

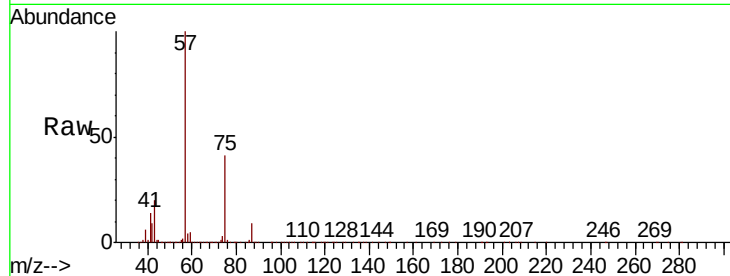
365-GRID-B6-B8

Tot Ion: 76 Resp: 10620

Ion Ratio Lower Upper

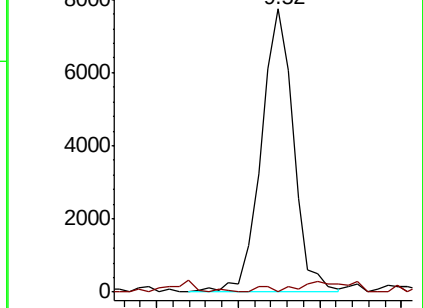
76 100

78 1.1 25.8 38.8#

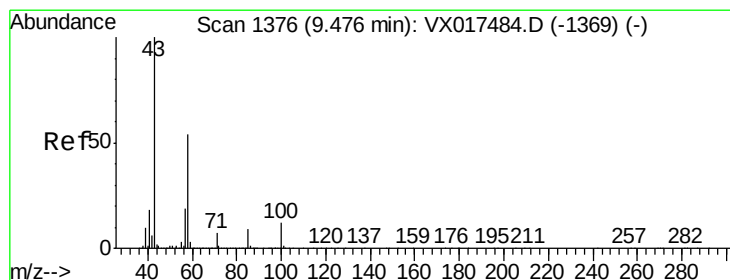
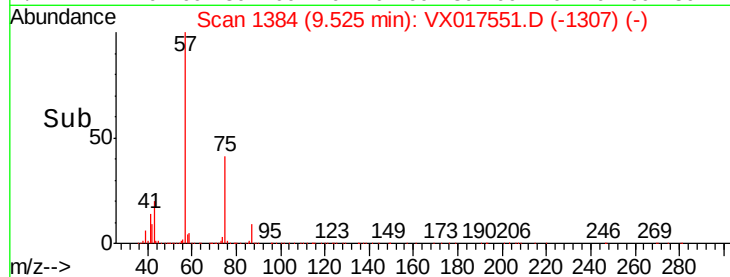


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#59

2-Hexanone

Concen: 23.689 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX017551.D

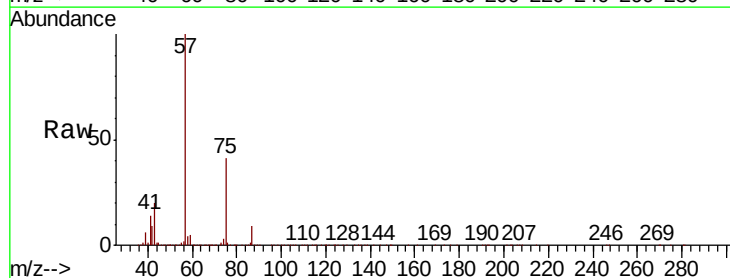
Acq: 24 Jul 2020 18:25

Tgt Ion: 43 Resp: 136999

Ion Ratio Lower Upper

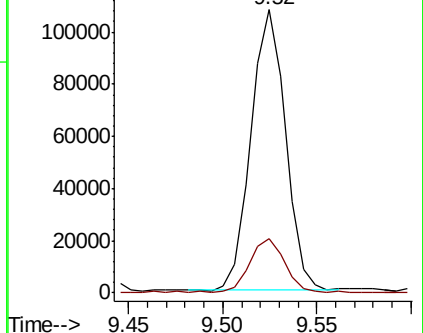
43 100

58 19.5 26.6 79.8#

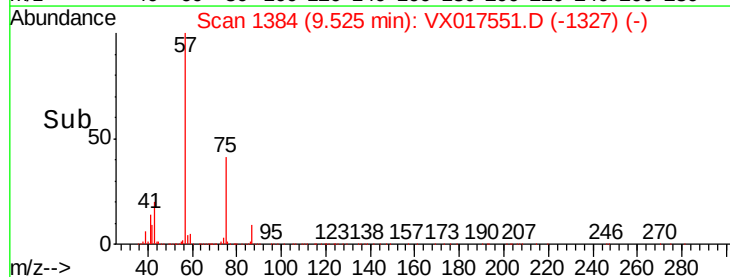


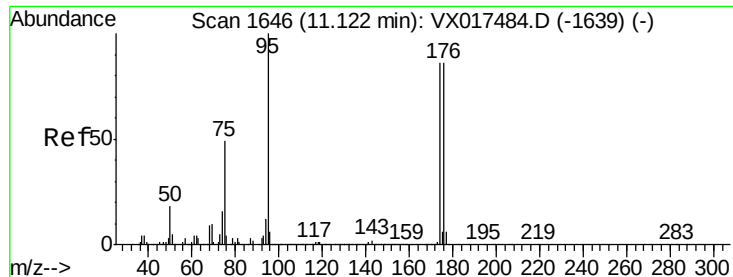
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

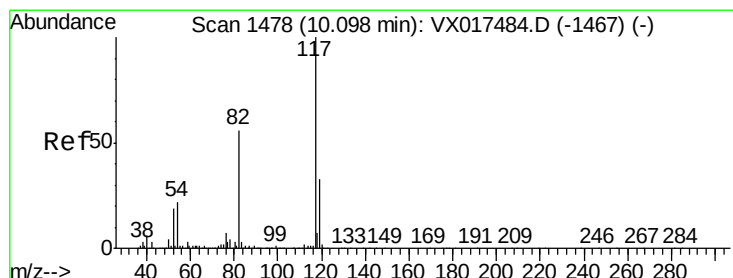
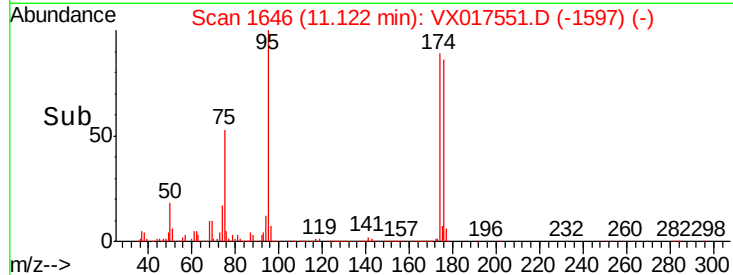
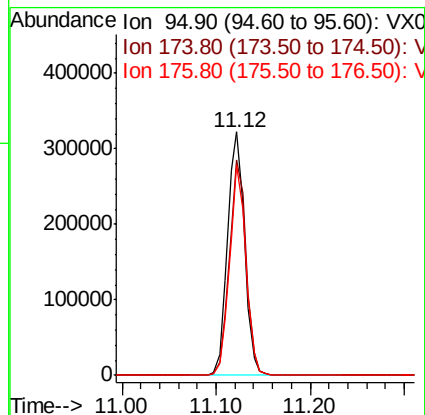
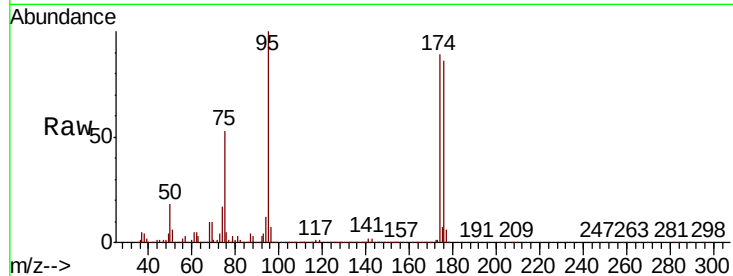




#62
4-Bromofluorobenzene
Concen: 56.140 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017551.D
Acq: 24 Jul 2020 18:25

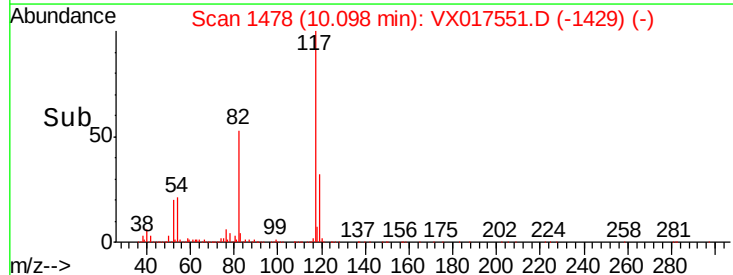
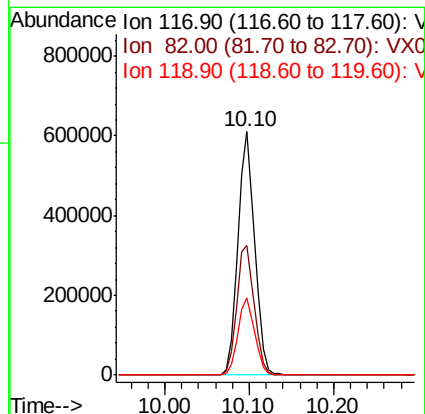
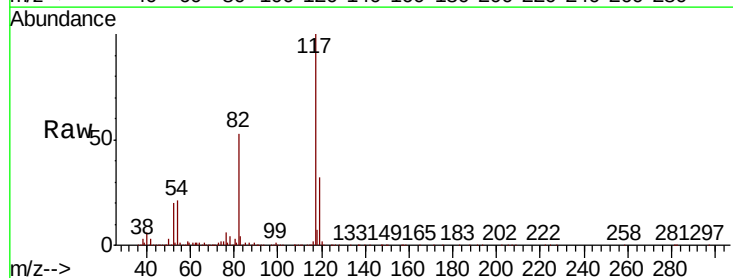
Instrument :
MSVOA_X
ClientSampleId :
365-GRID-B6-B8

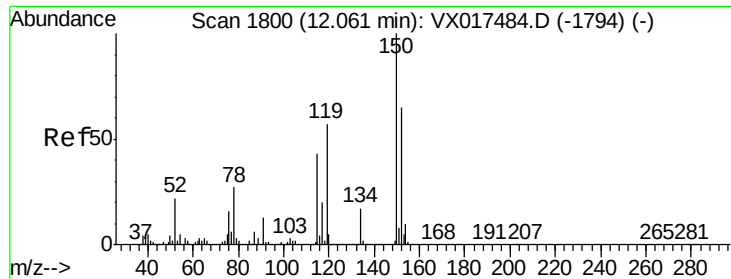
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.3	0.0	169.0
176	83.0	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017551.D
Acq: 24 Jul 2020 18:25

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.4	44.0	66.0
119	31.9	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

365-GRID-B6-B8

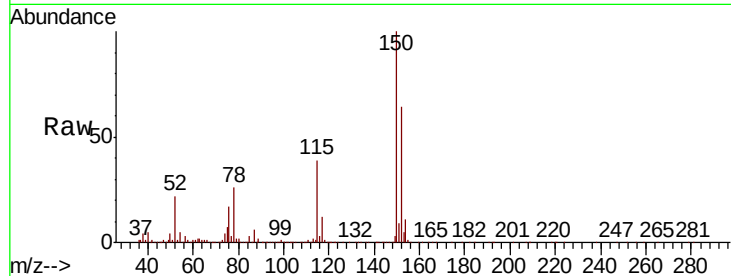
Tot Ion:152 Resp: 456192

Ion Ratio Lower Upper

152 100

115 59.1 65.5 196.6#

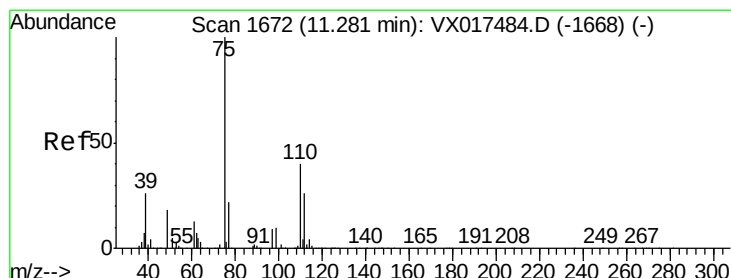
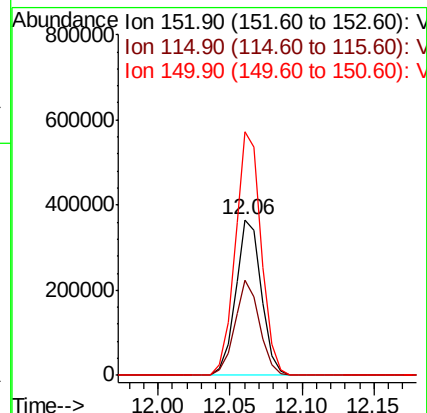
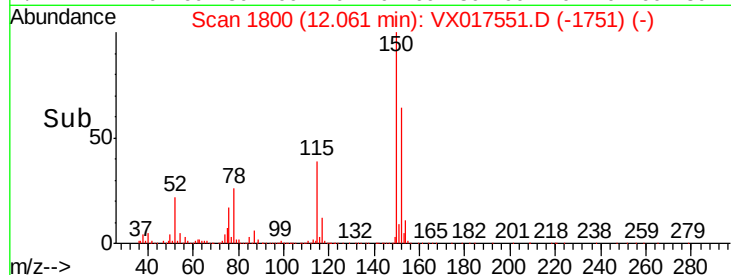
150 157.6 0.0 412.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.836 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017551.D

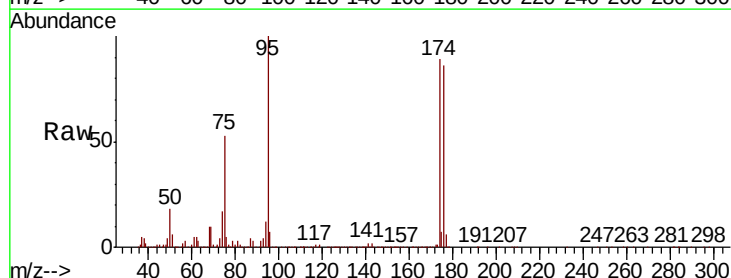
Acq: 24 Jul 2020 18:25

Tgt Ion: 75 Resp: 204907

Ion Ratio Lower Upper

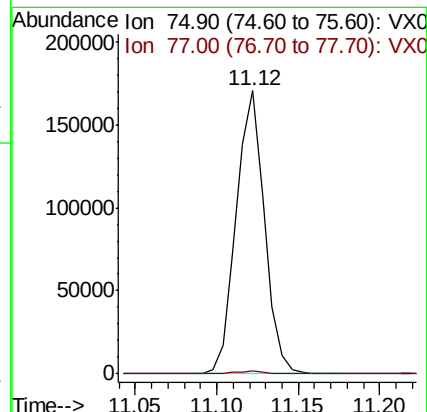
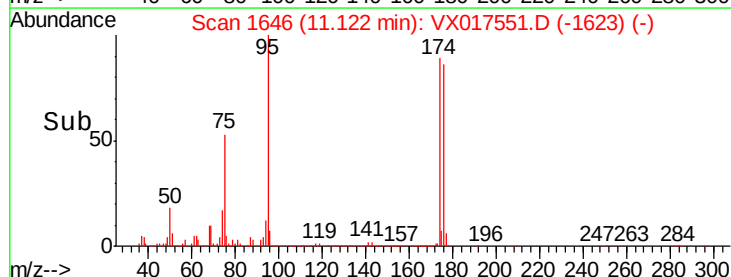
75 100

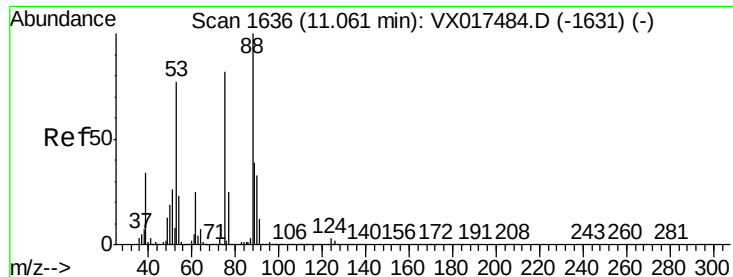
77 1.2 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.021 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Instrument :

MSVOA_X

ClientSampleId :

365-GRID-B6-B8

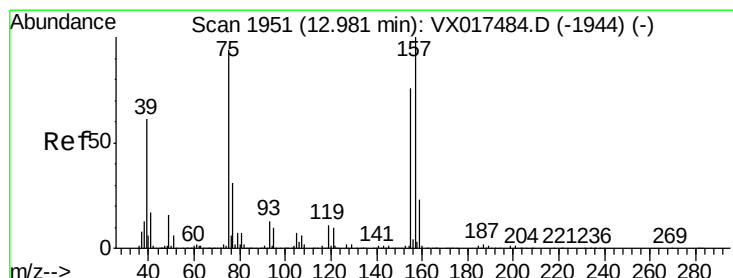
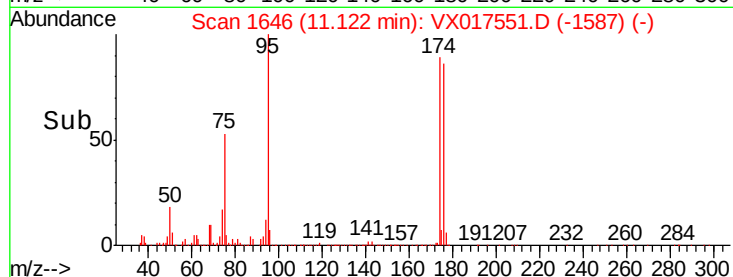
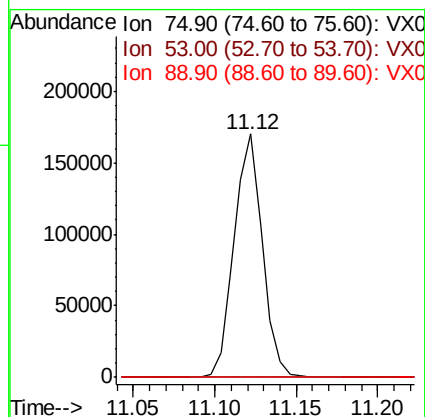
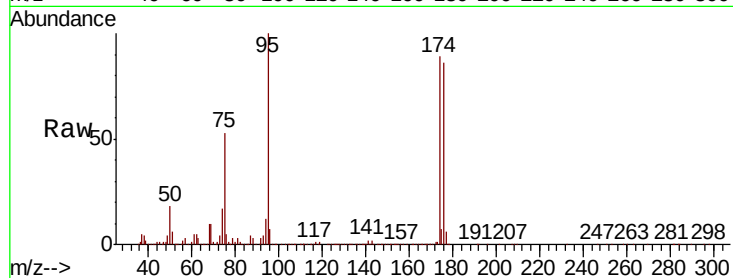
Tot Ion: 75 Resp: 204907

Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

89 0.1 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.603 ug/l

RT: 13.03 min Scan# 1959

Delta R.T. 0.05 min

Lab File: VX017551.D

Acq: 24 Jul 2020 18:25

Tgt Ion: 75 Resp: 77

Ion Ratio Lower Upper

75 100

155 48.1 42.3 126.8

157 62.3 54.3 162.9

